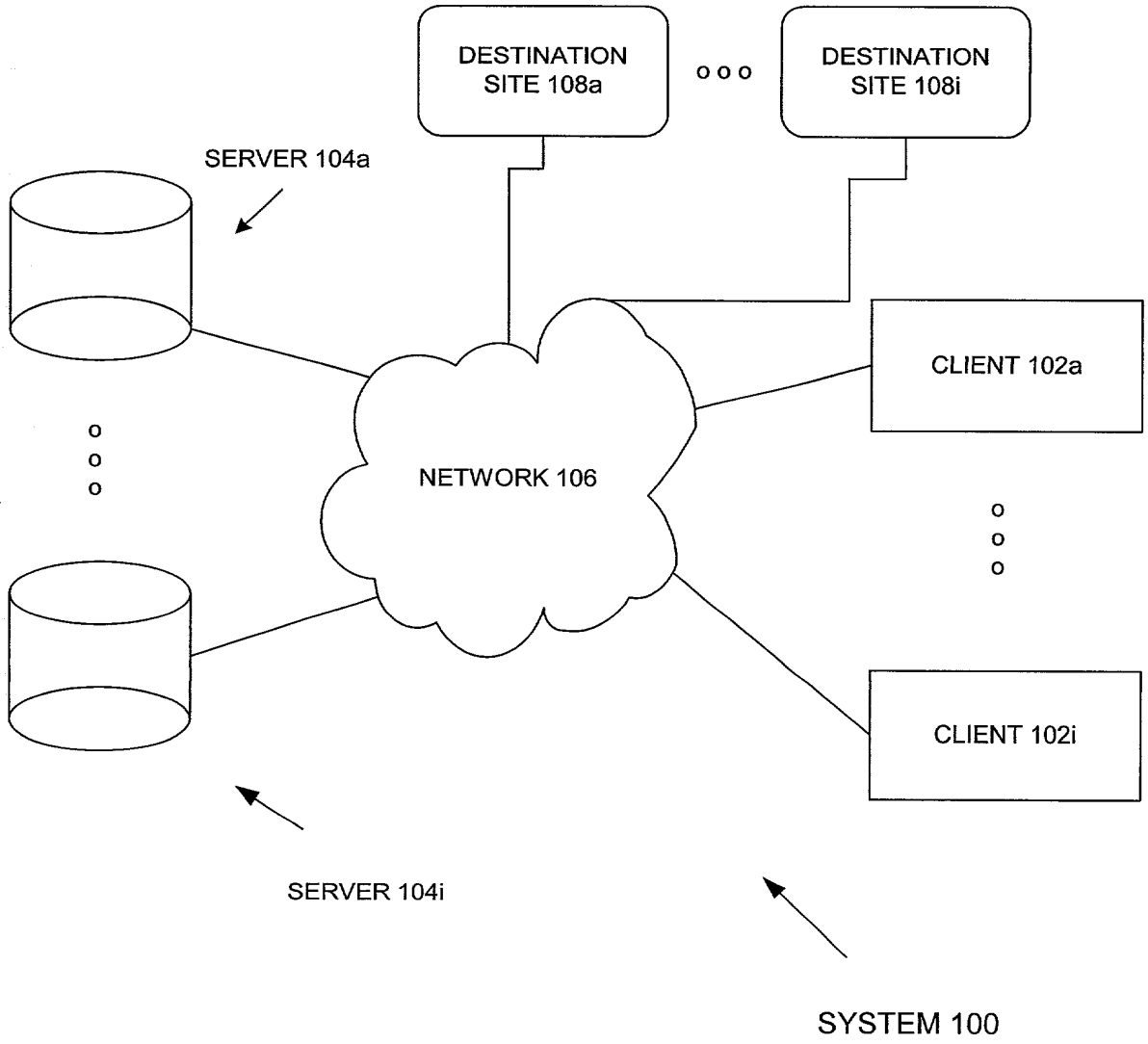

DESTINATION SITE 108a
o o o
DESTINATION SITE 108i
SERVER 104a
o
o
o
NETWORK 106
CLIENT 102a
o
o
o
CLIENT 102i
SERVER 104i
SYSTEM 100

FIG. 1

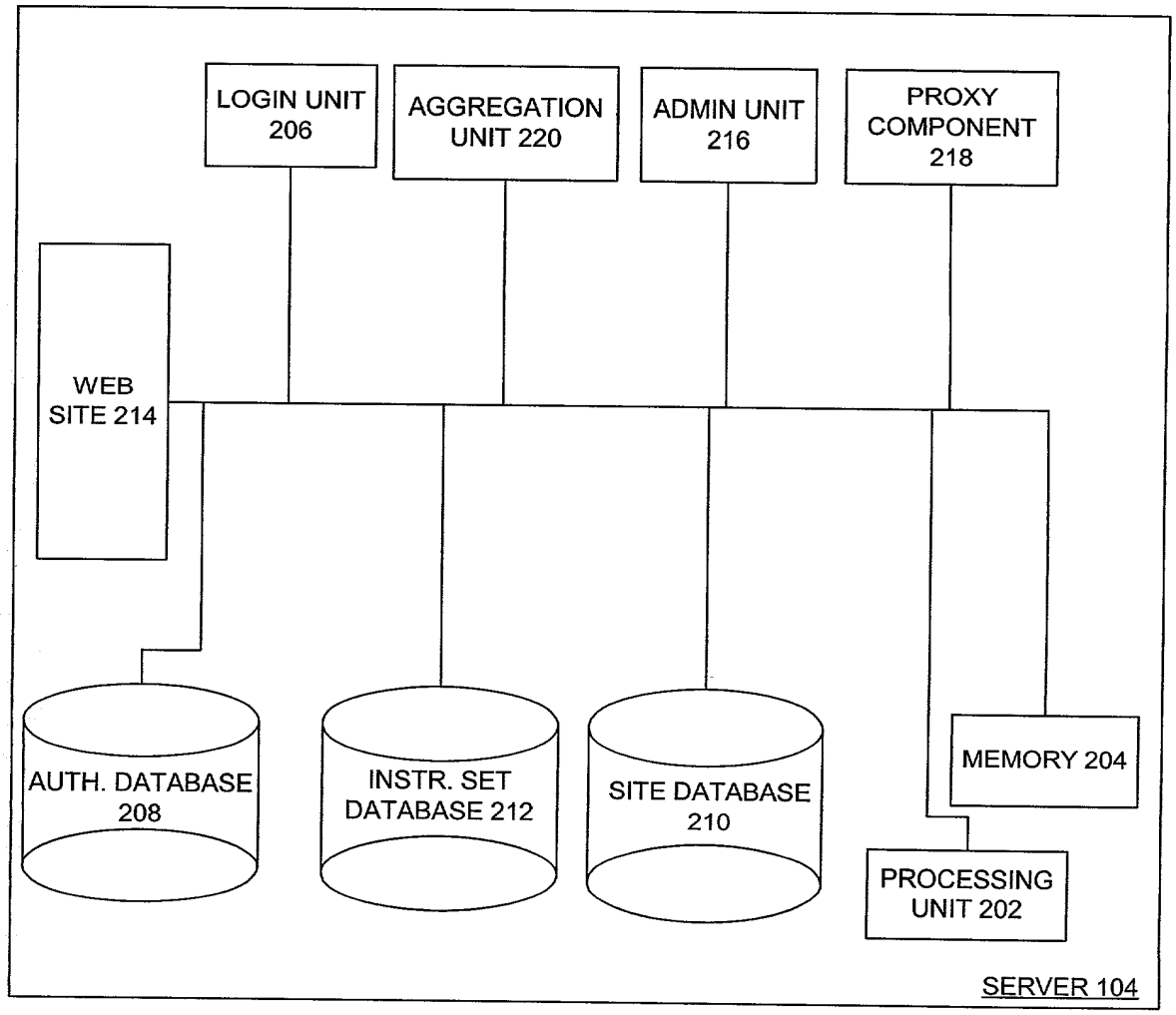

LOGIN UNIT 206
AGGREGATION UNIT 220
ADMIN UNIT 216
PROXY COMPONENT 218
WEB SITE 214
AUTH. DATABASE 208
INSTR. SET DATABASE 212
SITE DATABASE 210
MEMORY 204
PROCESSING UNIT 202
SERVER 104

FIG. 2

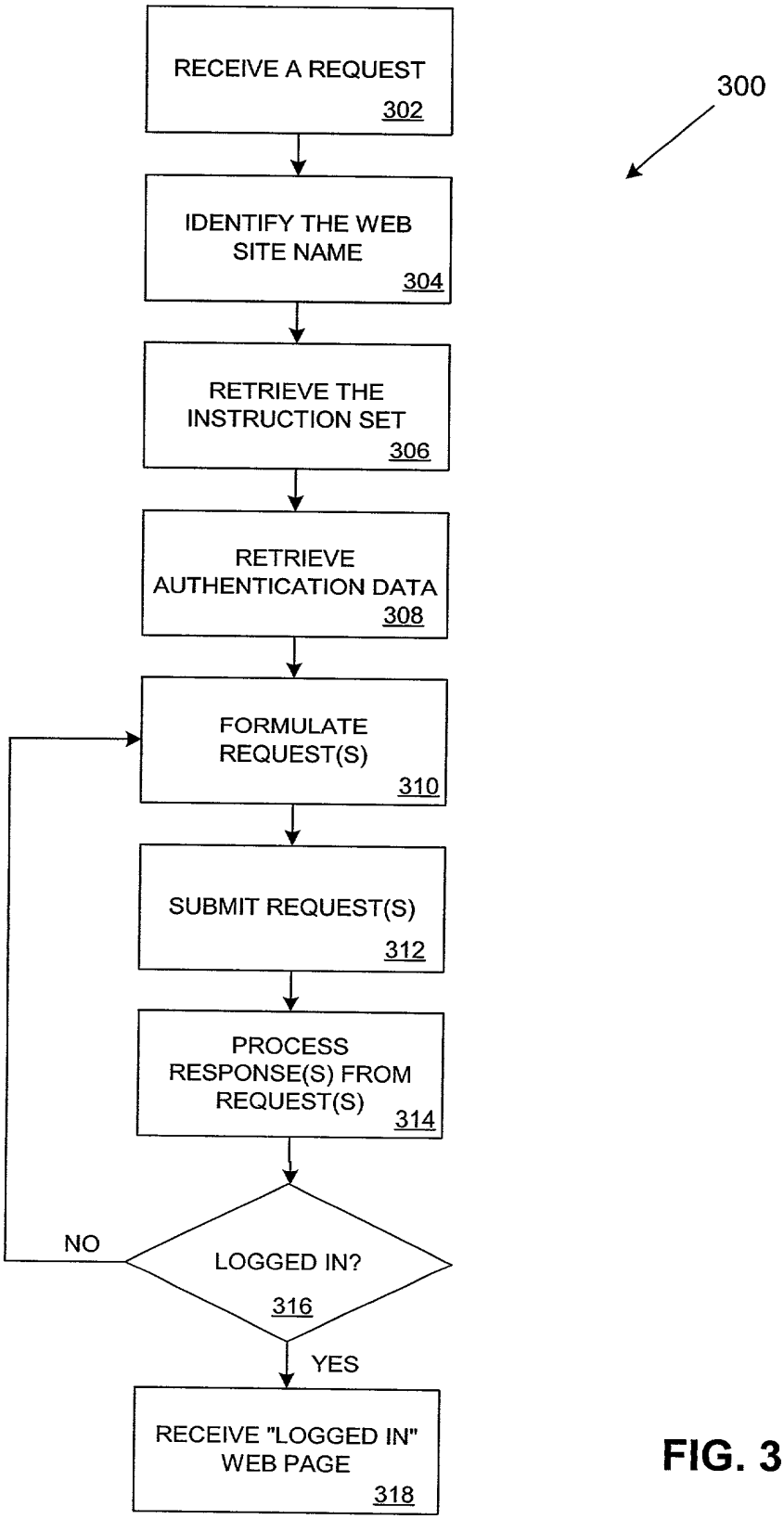

RECEIVE A REQUEST
302
300
IDENTIFY THE WEB SITE NAME
304
RETRIEVE THE INSTRUCTION SET
306
RETRIEVE AUTHENTICATION DATA
308
FORMULATE REQUEST(S)
310
SUBMIT REQUEST(S)
312
PROCESS RESPONSE(S) FROM REQUEST(S)
314
NO
LOGGED IN?
316
YES
RECEIVE "LOGGED IN" WEB PAGE
318

FIG. 3

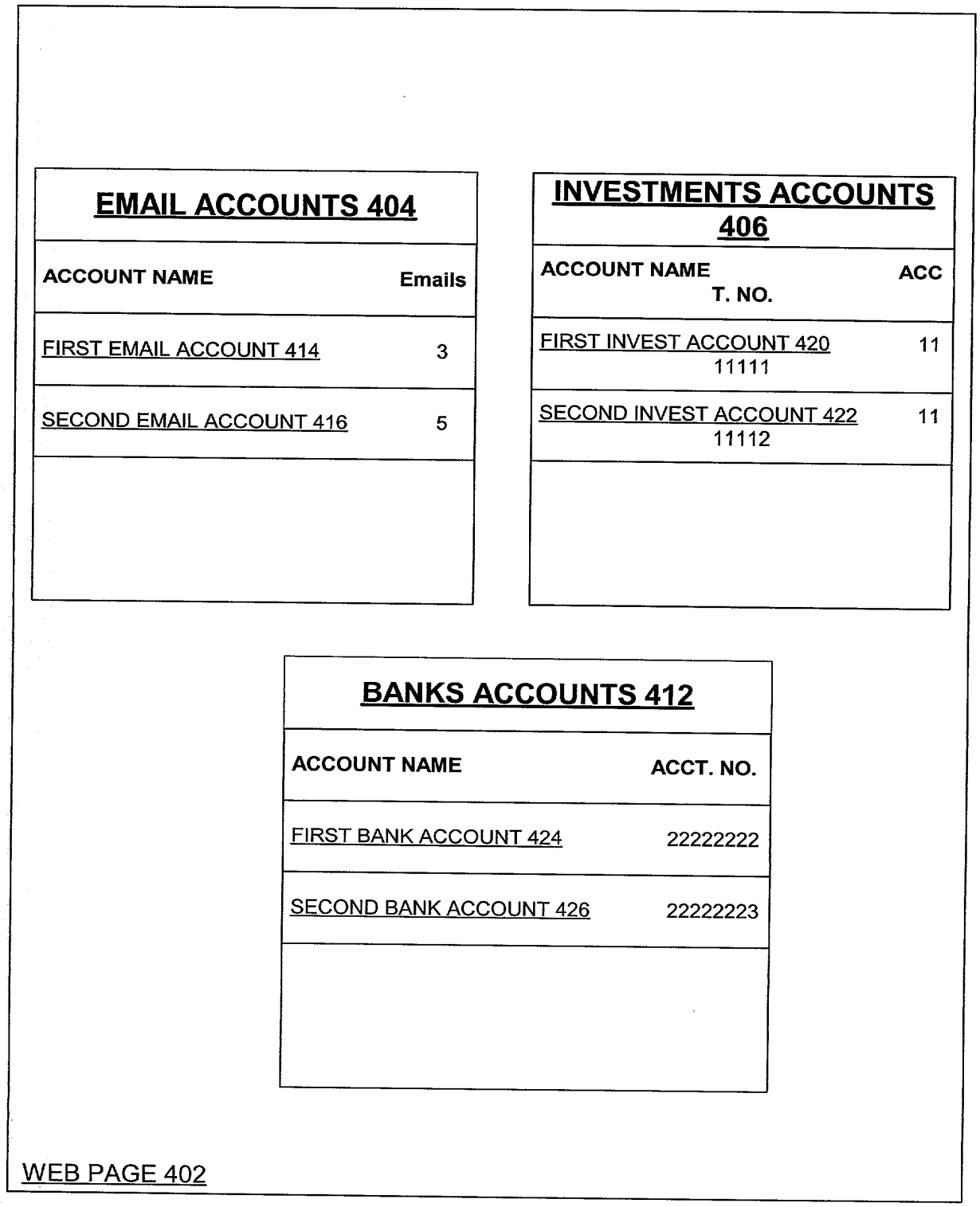

EMAIL ACCOUNTS 404
ACCOUNT NAME
Emails
FIRST EMAIL ACCOUNT 414
3
SECOND EMAIL ACCOUNT 416
5
INVESTMENTS ACCOUNTS 406
ACCOUNT NAME
ACC T. NO.
FIRST INVEST ACCOUNT 420
11111
11
SECOND INVEST ACCOUNT 422
11112
11
BANKS ACCOUNTS 412
ACCOUNT NAME
ACCT. NO.
FIRST BANK ACCOUNT 424
22222222
SECOND BANK ACCOUNT 426
22222223
WEB PAGE 402

FIG. 4

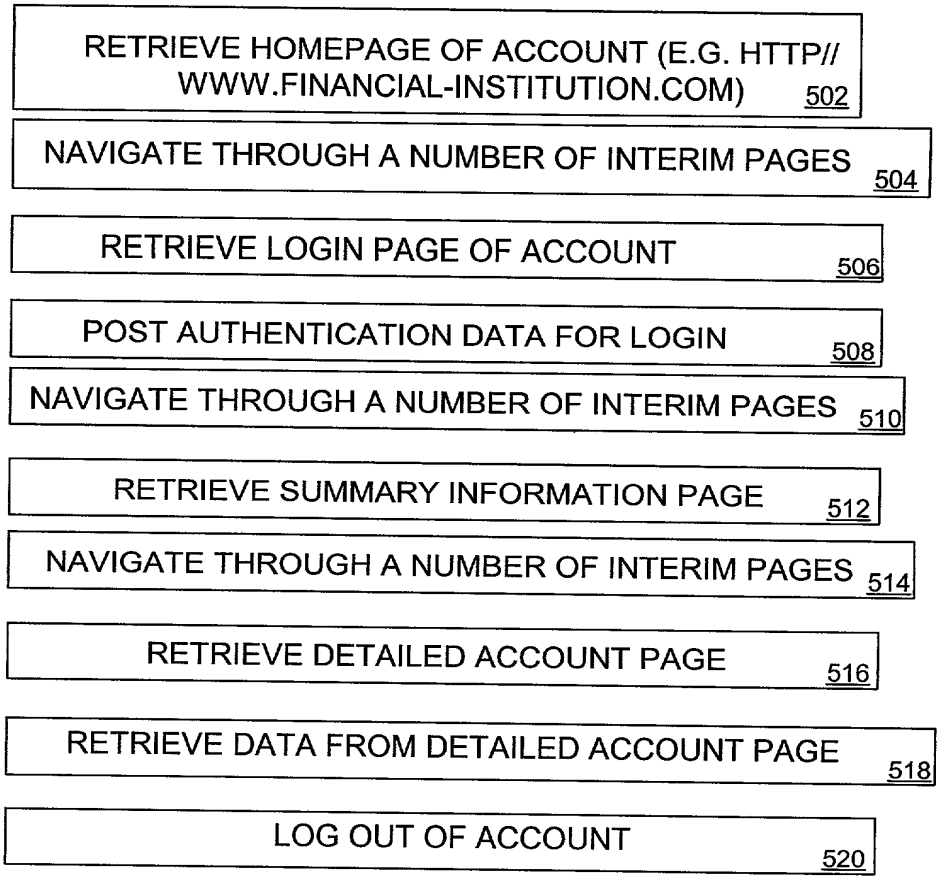

RETRIEVE HOMEPAGE OF ACCOUNT (E.G. HTTP// WWW.FINANCIAL-INSTITUTION.COM) 502
NAVIGATE THROUGH A NUMBER OF INTERIM PAGES 504
RETRIEVE LOGIN PAGE OF ACCOUNT 506
POST AUTHENTICATION DATA FOR LOGIN 508
NAVIGATE THROUGH A NUMBER OF INTERIM PAGES 510
RETRIEVE SUMMARY INFORMATION PAGE 512
NAVIGATE THROUGH A NUMBER OF INTERIM PAGES 514
RETRIEVE DETAILED ACCOUNT PAGE 516
RETRIEVE DATA FROM DETAILED ACCOUNT PAGE 518
LOG OUT OF ACCOUNT 520

FIG. 5

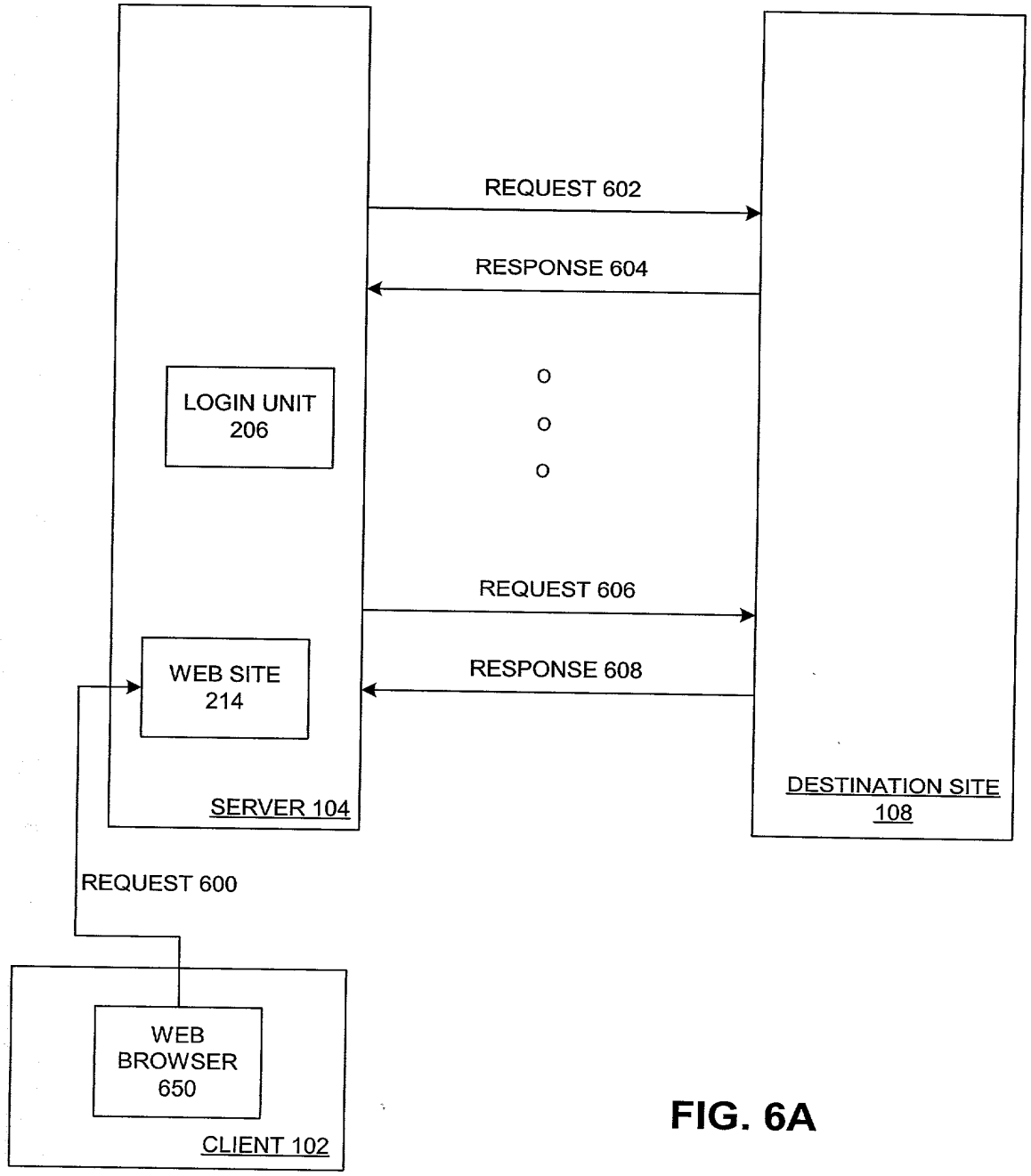

REQUEST 602
RESPONSE 604
LOGIN UNIT
206
o
o
o
REQUEST 606
WEB SITE
214
RESPONSE 608
SERVER 104
DESTINATION SITE
108
REQUEST 600
WEB
BROWSER
650
CLIENT 102

FIG. 6A

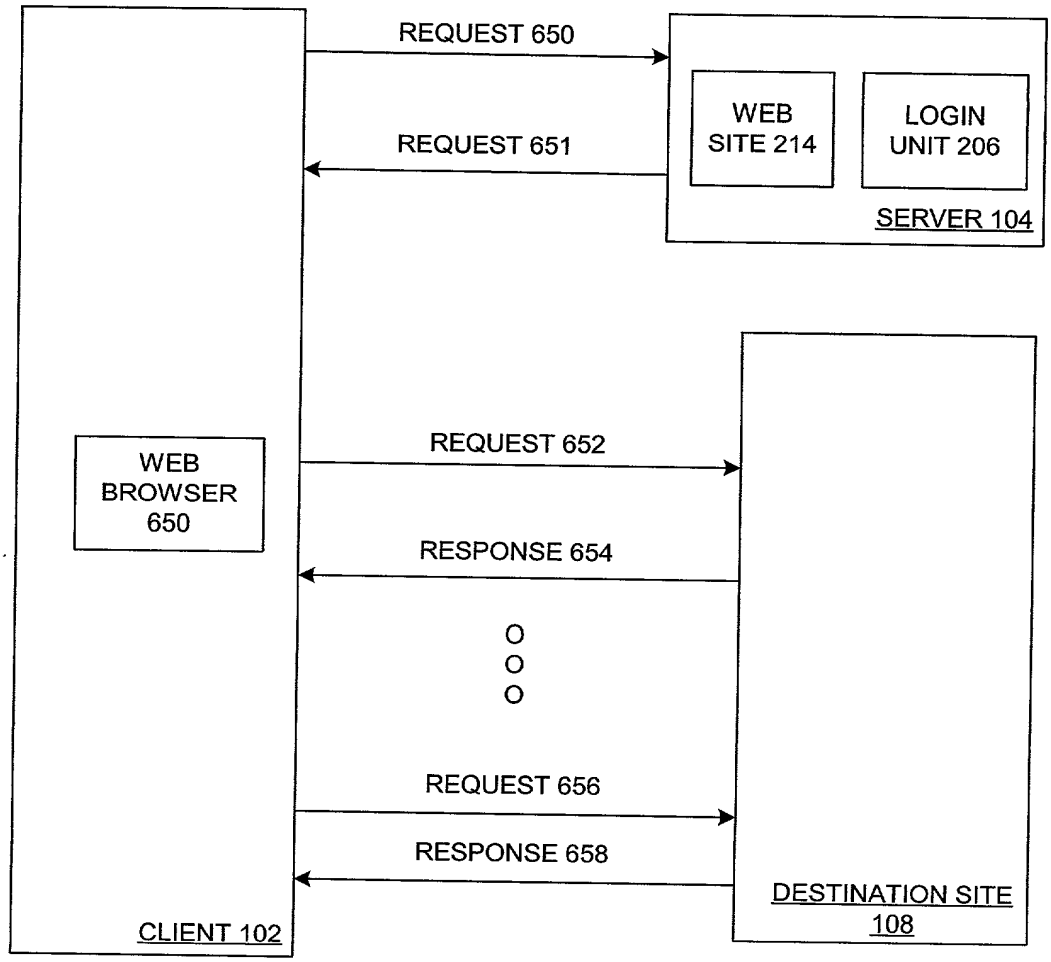

REQUEST 650
REQUEST 651
WEB SITE 214
LOGIN UNIT 206
SERVER 104
WEB BROWSER 650
REQUEST 652
RESPONSE 654
O
O
O
REQUEST 656
RESPONSE 658
DESTINATION SITE 108
CLIENT 102

FIG. 6B

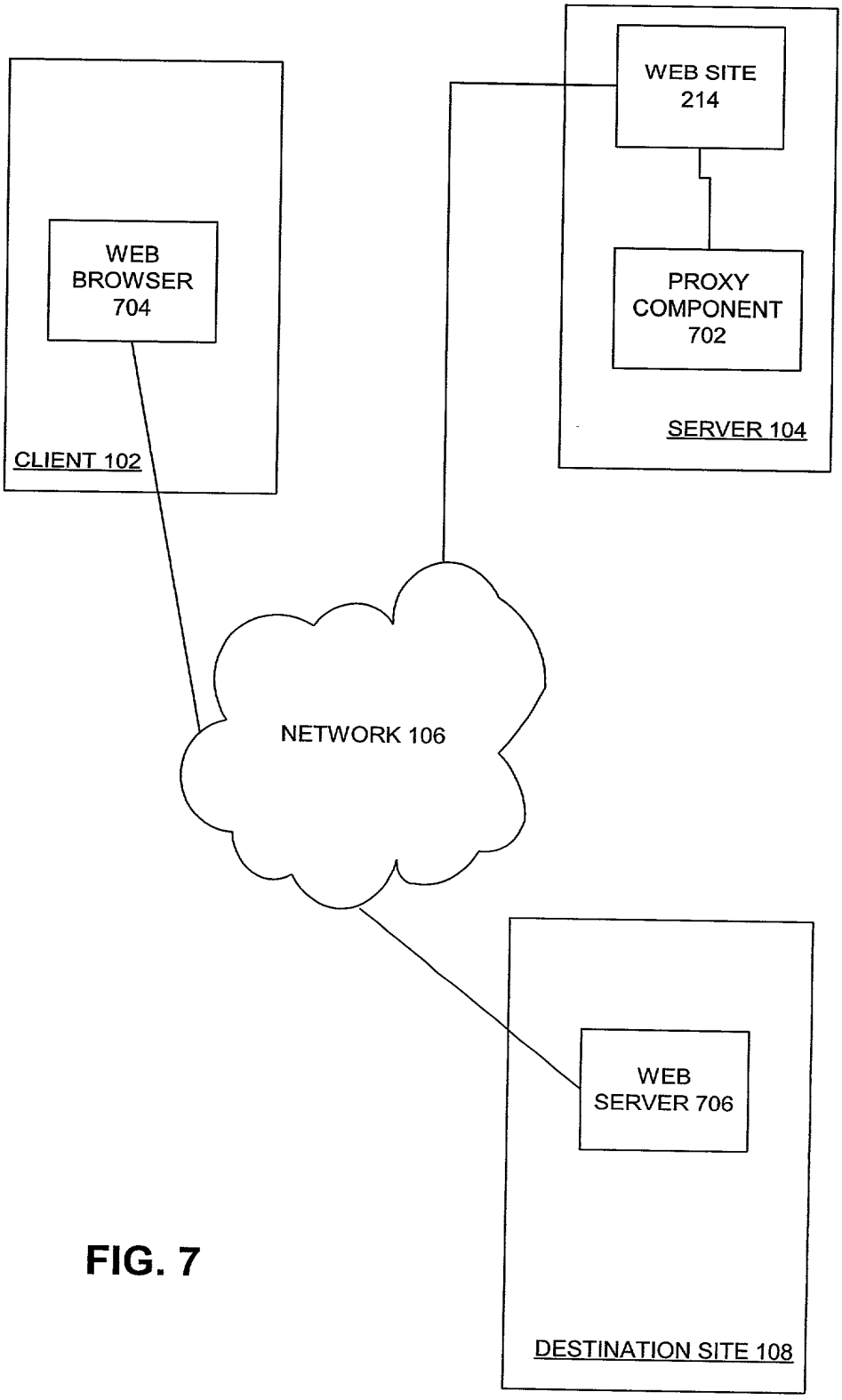
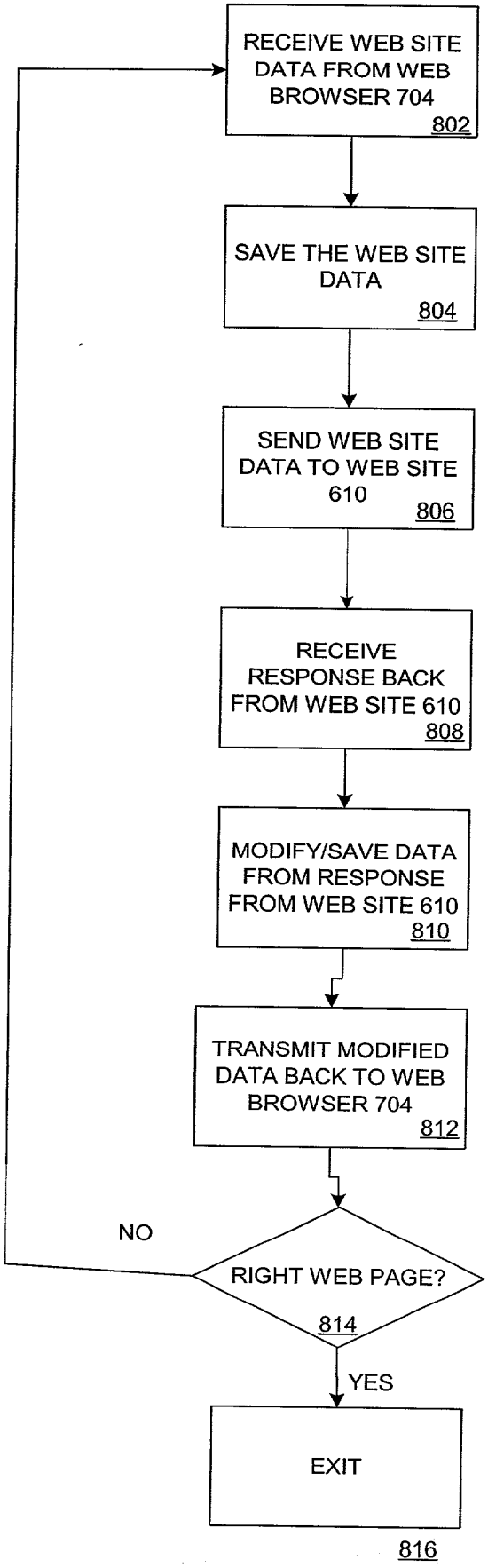

WEB SITE
214
WEB
BROWSER
704
PROXY
COMPONENT
702
SERVER 104
CLIENT 102
NETWORK 106
WEB
SERVER 706
DESTINATION SITE 108

FIG. 7


RECEIVE WEB SITE DATA FROM WEB BROWSER 704
802
SAVE THE WEB SITE DATA
804
SEND WEB SITE DATA TO WEB SITE 610
806
RECEIVE RESPONSE BACK FROM WEB SITE 610
808
MODIFY/SAVE DATA FROM RESPONSE FROM WEB SITE 610
810
TRANSMIT MODIFIED DATA BACK TO WEB BROWSER 704
812
NO
RIGHT WEB PAGE?
814
YES
EXIT
816

800

FIG. 8

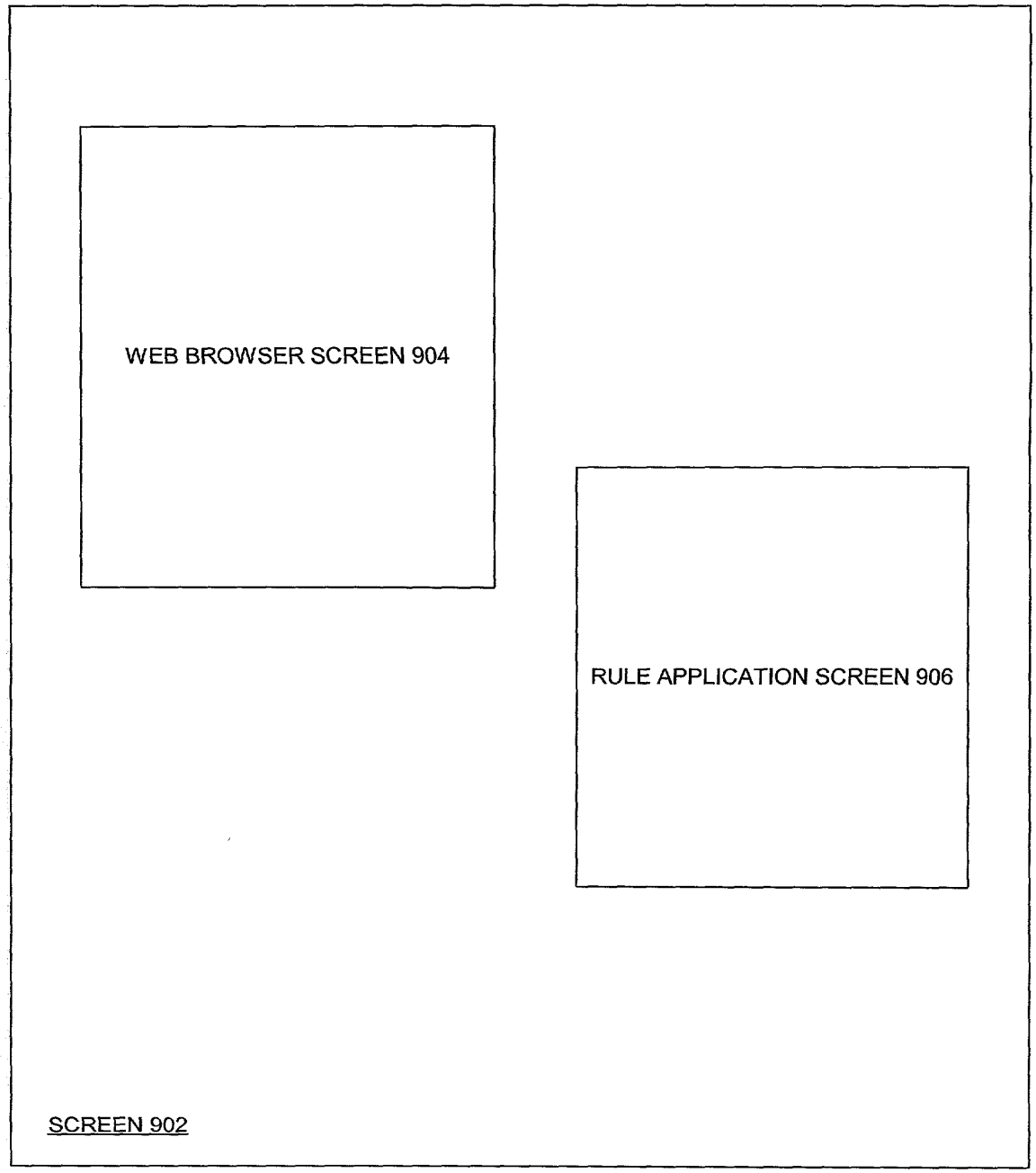

WEB BROWSER SCREEN 904
RULE APPLICATION SCREEN 906
SCREEN 902

FIG. 9

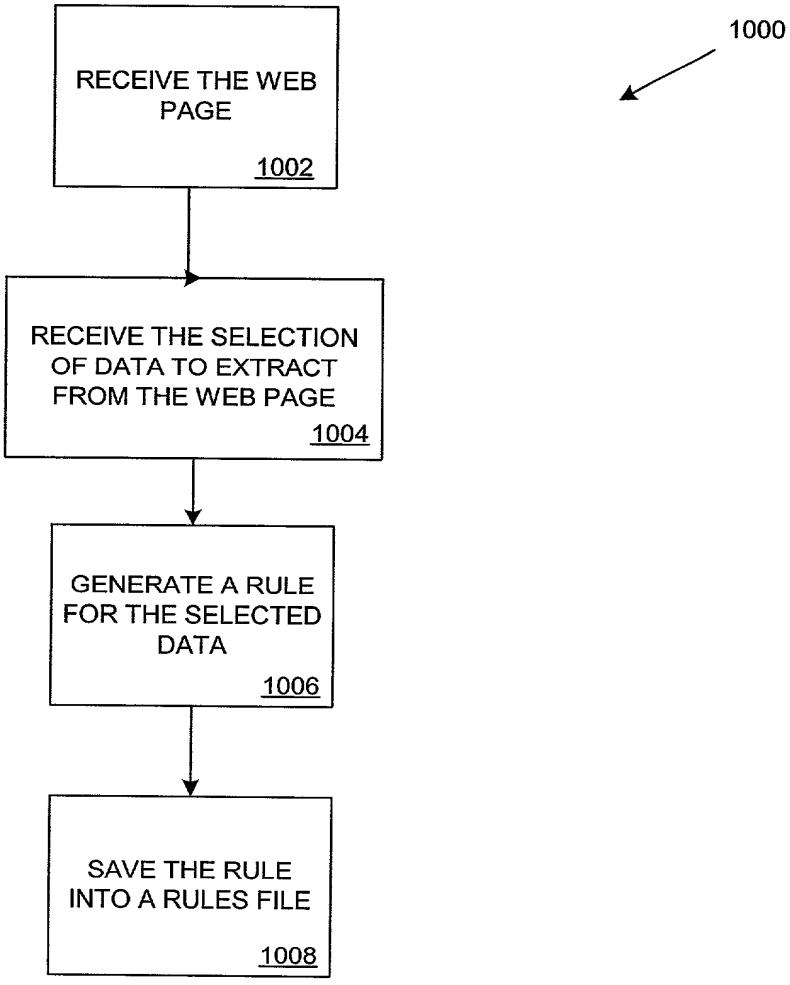

1000
RECEIVE THE WEB PAGE
1002
RECEIVE THE SELECTION OF DATA TO EXTRACT FROM THE WEB PAGE
1004
GENERATE A RULE FOR THE SELECTED DATA
1006
SAVE THE RULE INTO A RULES FILE
1008

FIG. 10

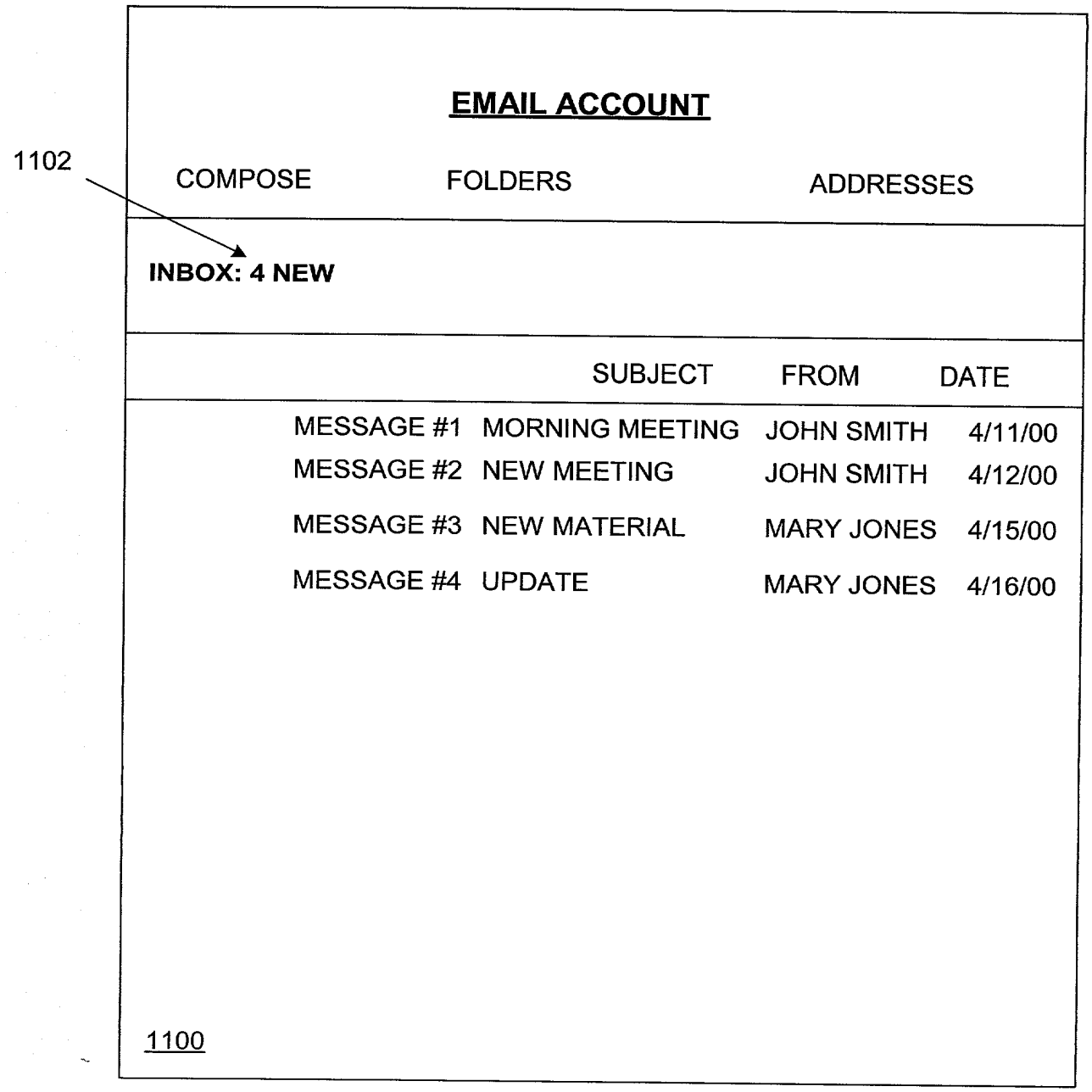

EMAIL ACCOUNT
1102
COMPOSE
FOLDERS
ADDRESSES
INBOX: 4 NEW
SUBJECT
FROM
DATE
MESSAGE #1 MORNING MEETING JOHN SMITH 4/11/00
MESSAGE #2 NEW MEETING JOHN SMITH 4/12/00
MESSAGE #3 NEW MATERIAL MARY JONES 4/15/00
MESSAGE #4 UPDATE MARY JONES 4/16/00
1100

FIG. 11

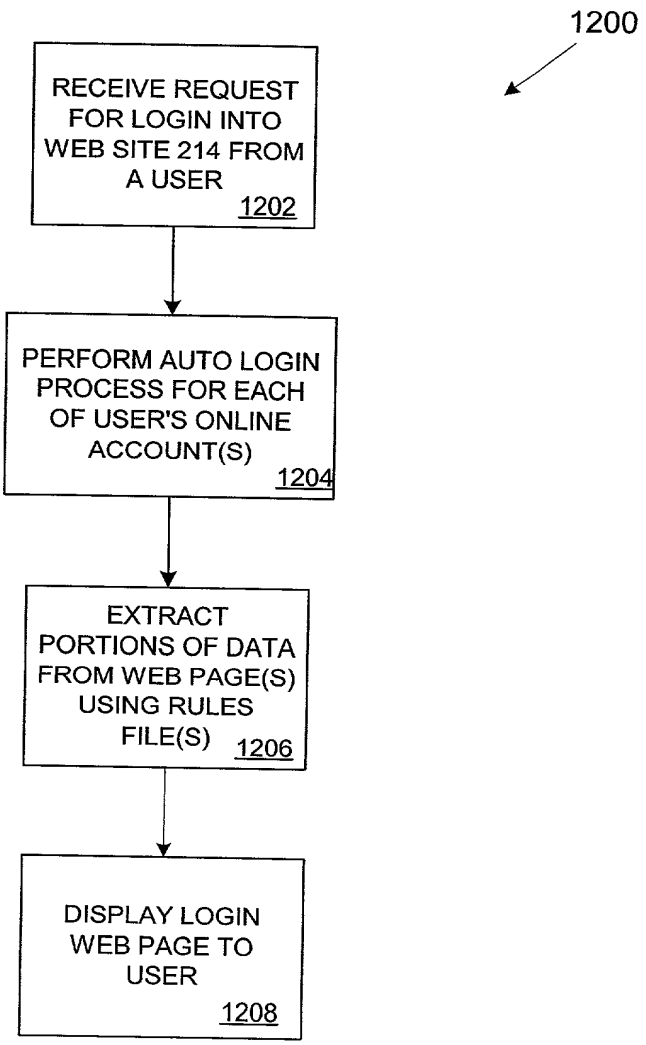

1200
RECEIVE REQUEST FOR LOGIN INTO WEB SITE 214 FROM A USER
1202
PERFORM AUTO LOGIN PROCESS FOR EACH OF USER'S ONLINE ACCOUNT(S)
1204
EXTRACT PORTIONS OF DATA FROM WEB PAGE(S) USING RULES FILE(S)
1206
DISPLAY LOGIN WEB PAGE TO USER
1208

FIG. 12